MC-FXO-8 & MC-FXS-8

User Manual

【Product introduction】

MC-FXO/FXS-8 is 8 POTS phone lines over fiber converter using the most advanced digital multiplexing communications solutions and fiber optic transmission technology, which can transmit analog and PSTN telephones or Ethernet data signals on a single fiber in real-time synchronization, no distortion, high quality. Plug and play design makes installation easy, no need for field settings and adjustment. Its optical module and the core circuit components are high quality and very stable, optical and electrical interfaces are in line with international standards and suitable for different operation environment.

Two 10/100Mbps Ethernet ports are optional for customers' special request.

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【Package List】

8 Channel POTS Converter: 1 pair (2 units)
UL AC-DC5V1A External power adapter: 2 pieces
User manual: 1 copy

【Product Features】

- All-digital uncompressed transmission.
- PCM Pulse Code Modulation.
- Clear voice quality, stable and reliable calls.
- Industrial grade design -30°C ~ +75°C
- Support Caller ID / fax and provide anti-pole signal.
- Power and fiber optic link LED lights indicate the state of equipment.
- Low power consumption, low heat, stable operation for a long time.
- Supports multi-mode / single-mode and multi-fiber port selection.
- Supports hot swap.

【Technical Parameters】

- Telephone channel: 8
- Phone Connector: 8 x RJ-11 Jack
- Voice bandwidth: 8kHz
- Distortion: <1%
- Signal to Noise Ratio: >95db

FXS Telephone Mode
- Ringing voltage: 75V
- Ring Frequency: 25HZ
- Input impedance: 600Ω
- Return Loss: 40db
- Insertion Loss: -3±0.75dB
- Frequency characteristics: 300～3400Hz(-0.6～+3dB)
- Crosstalk attenuation: ≥65dB

FXO Switch Mode
- Ring detection voltage: 35V
- Ring detection frequency: 17HZ-60HZ
- Input impedance: 600Ω
- Return Loss: 40dB

Ethernet for Optional Requirement
- Data rate: 10/100Mbps
- Interface type: RJ45, Cat. 5 UTP Cable
- Standards: IEEE802.3U/100Base-TX
- Duplex mode: Half / Full Duplex

Optical Interface:
- Bit rate:155Mbps±20ppm
- Line code: NRZ+ Scrambler
  Wavelength: 850nm,1310nm,1550nm
  WDM 1310Tx/1550Rx (type A)
  1550Tx/1310Rx (type B)
- Transmit optical power:>-12dBm
- Receiver sensitivity:<-30dBm
- Fiber connector: SC

【Environmental Requirements】

- Operating Temperature:-30°C～+75°C
- Storage temperature:-40°C～+75°C
- Relative humidity: 0～95％ （Non condensing）
- Power Input: AC100-240V to DC5V 1A
- MTBF: ≥100000h
- Power Consumption:≤5W (Input: DC5V 1000-3000mA)

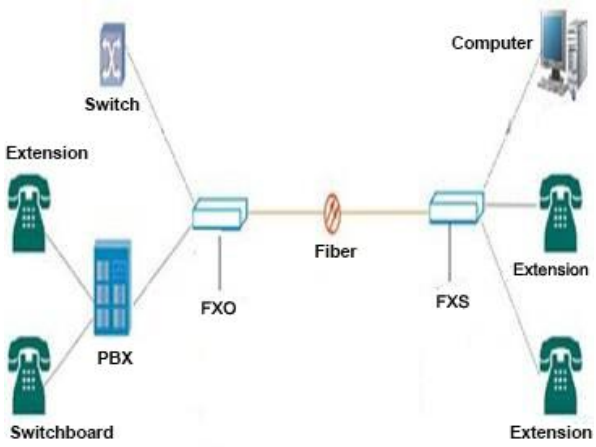
【LED Indicators】

Name	LED Indications	Status Descriptions
PWR	Always ON	Power work normal
SYN	OFF	Fiber doesn't pass
	ON	Fiber Link OK
P1-P8	OFF	Telephone is not connected
	Flashing	Telephone connected
Ethernet port	Yellow/green ON	Network connection normal
	Yellow light flashing	Network data transmission normal

【Applications】

- ◆ Metro optical broadband network: Telecommunications, network System integration and other data network operators.
- ◆ Communications professional network: Applies to finance, government, oil, railway, electricity, public security, transportation, education and other industry professionals network.
- ◆ Multimedia transmission: Voice, data and integrated transmission.
- ◆ Resistance to harsh environments: Applicable to strong electromagnetic interference, long-distance network under harsh environments.

【Connection Diagram】



Plug & Play Installation

- MC-FXO-8-MM and MC-FXS-8-MM: Use 2 multi-mode fibers, SC, transmission up to 550 meters and plug the adapter.
- MC-FXO-8-SC02A and MC-FXS-8-SC02B: Use one multi-mode fiber, SC and WDM transmission up to 2Km.
- MC-FXO-8-SC20A and MC-FXS-8-SC20B: Use one single mode fiber, SC and WDM transmission up to 20Km.
- MC-FXO-8-SC40A and MC-FXS-8-SC40B: Use one single mode fiber, SC and WDM transmission up to 40Km.

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